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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (canceled).

2. (currently amended) A process for production of acrylic acid, which is a process comprising the step of carrying out a catalytic gas phase oxidation reaction of acrolein with molecular oxygen or a molecular-oxygen-containing gas, thereby producing the acrylic acid;

wherein the reaction is carried out in the presence of a composite-oxide catalyst shown by the following general formula (1):



(wherein: Mo is molybdenum; V is vanadium; W is tungsten; Cu is copper; A is at least one element selected from among cobalt, nickel, iron, lead, and bismuth; B is at least one element selected from among antimony, niobium, and tin; C is at least one element selected from among silicon, aluminum, titanium, and zirconium; and O is oxygen; and further, a, b, c, d, e, f, g, and x denote atomic ratios of Mo, V, W, Cu, A, B, C, and O respectively; and, in the case of a = 12, the following inequalities are satisfied: $2 \leq b \leq 15$; $0 < c \leq 10$; $0 < d \leq 6$; $0 < e \leq 30$; $0 \leq f \leq 6$; and $0 \leq g \leq 60$; and x is a numerical value as determined by the oxidation state of each element);

wherein a supply source of ~~a component~~ said element A for preparing the catalyst is a composite of ~~the component~~ at least one element [[A]] selected from among cobalt, nickel, iron, lead and bismuth and at least one element selected from among molybdenum, vanadium, and copper.

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3. (currently amended) A process for production of acrylic acid according to claim 2, which comprises the steps of:

(1) introducing a mixed gas into a first fixed-bed multitubular reactor to thereby produce an acrolein-containing gas, wherein the mixed gas contains high-concentration-propylene and oxygen, but is substantially free from steam, and wherein the first fixed-bed multitubular reactor is packed with a composite-oxide catalyst including molybdenum and bismuth as essential components;

(2) introducing the resultant acrolein-containing gas into a second fixed-bed multitubular reactor to thereby produce an acrylic-acid-containing gas, wherein the second fixed-bed multitubular reactor is packed with a composite-oxide catalyst including molybdenum and vanadium as essential components; and

(3) introducing the resultant acrylic-acid-containing gas into an acrylic-acid-absorbing column to thereby collect the acrylic-acid-containing gas as a high-concentration acrylic acid solution;

wherein the composite-oxide catalyst as recited in claim 2 is used as the composite-oxide catalyst which is packed into the second fixed-bed multitubular reactor; and

with the process further comprising the steps of: dividing the inside of each reaction tube of the second fixed-bed multitubular reactor in a tubular axial direction to thereby form at least two reaction zones; and then packing these reaction zones with the composite-oxide catalysts as recited in claim 2 different as to the amount of ~~the component~~ element A in such a manner that the amount

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of ~~the component~~ element A decreases from the gas-inlet side of each reaction tube toward its gas-outlet side.

4. (original) A process for production of acrylic acid according to claim 3, wherein the mixed gas which is introduced into the first fixed-bed multitubular reactor further contains a saturated hydrocarbon which does substantially not react by oxidation in this reactor.

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